Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claims 1-76 (Cancelled).

- 77. (Previously Presented) An isolated polynucleotide encoding a G protein-coupled receptor, wherein said polynucleotide is selected from the group consisting of:
- (a) a polynucleotide comprising a nucleotide sequence encoding the polypeptide of SEQ ID NO:20; and
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:19.
- 78. (Previously Presented) An isolated polynucleotide encoding a G protein-coupled receptor, wherein said polynucleotide is selected from the group consisting of:
- (a) a polynucleotide consisting of a nucleotide sequence encoding the polypeptide of SEQ ID NO:20; and
 - (b) a polynucleotide consisting of the nucleotide sequence of SEQ ID NO:19.
- 79. (Previously Presented) A vector comprising the polynucleotide of claim 77 or claim 78.
- 80. (Previously Presented) The vector of claim 79, wherein said vector is an expression vector, and said polynucleotide is operably linked to a promoter.
 - 81. (Previously Presented) A recombinant host cell comprising the vector of claim 79.
- 82. (Previously Presented) A process for making a recombinant host cell comprising the steps of:

- (a) transfecting the expression vector of claim 80 into a suitable host cell; and
- (b) culturing the host cell under conditions which allow expression of a G protein-coupled receptor from the expression vector.
- 83. (Previously Presented) A membrane of the recombinant host cell of claim 81 comprising said G protein-coupled receptor.
- 84. (Previously Presented) An isolated polynucleotide encoding a non-endogenous, constitutively activated G protein-coupled receptor, wherein said polynucleotide is selected from the group consisting of:
- (a) a polynucleotide comprising a nucleotide sequence encoding the polypeptide of SEQ ID NO:20 wherein the codon corresponding to glycine at amino acid position 285 has been substituted with a codon corresponding to an amino acid other than glycine; and
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:19 wherein the codon at nucleotide positions 853-855 corresponding to glycine has been substituted with a codon corresponding to an amino acid other than glycine.
- 85. (Previously Presented) An isolated polynucleotide encoding a non-endogenous, constitutively activated G protein-coupled receptor, wherein said polynucleotide is selected from the group consisting of:
- (a) a polynucleotide consisting of a nucleotide sequence encoding the polypeptide of SEQ ID NO:20 wherein the codon corresponding to glycine at amino acid position 285 has been substituted with a codon corresponding to an amino acid other than glycine; and

- (b) a polynucleotide consisting of the nucleotide sequence of SEQ ID NO:19 wherein the codon at nucleotide positions 853-855 corresponding to glycine has been substituted with a codon corresponding to an amino acid other than glycine.
- 86. (Previously Presented) The polynucleotide of claim 84 or claim 85 wherein the codon corresponding to glycine at amino acid position 285 or the codon at nucleotide positions 853-855 corresponding to glycine has been substituted with a codon corresponding to lysine.
 - 87. (Previously Presented) A vector comprising the polynucleotide of claim 84.
- 88. (Previously Presented) The vector of claim 87, wherein said vector is an expression vector, and said polynucleotide is operably linked to a promoter.
 - 89. (Previously Presented) A recombinant host cell comprising the vector of claim 87.
- 90. (Previously Presented) A process for making a recombinant host cell comprising the steps of :
 - (a) transfecting the expression vector of claim 88 into a suitable host cell; and
- (b) culturing the host cell under conditions which allow expression of a G protein-coupled receptor from the expression vector.
- 91. (Previously Presented) A membrane of the recombinant host cell of claim 89 comprising said expressed G protein-coupled receptor.
- 92. (Previously Presented) An isolated polynucleotide encoding a G protein fusion construct of a G protein-coupled receptor, wherein said polynucleotide comprises the nucleotide sequence of SEQ ID NO:19.

- 93. (Previously Presented) An isolated polynucleotide encoding a G protein fusion construct of a G protein-coupled receptor, wherein said polynucleotide comprises a nucleotide sequence selected from the group consisting of:
- (a) a nucleotide sequence encoding the polypeptide of SEQ ID NO:20 wherein the codon corresponding to glycine at amino acid position 285 has been substituted with a codon corresponding to an amino acid other than glycine; and
- (b) the nucleotide sequence of SEQ ID NO:19 wherein the codon at nucleotide positions 853-855 corresponding to glycine has been substituted with a codon corresponding to an amino acid other than glycine.
- 94. (Previously Presented) The isolated polynucleotide of claim 93 wherein the codon corresponding to glycine at amino acid position 285 or the codon at nucleotide positions 853-855 corresponding to glycine has been substituted with a codon corresponding to lysine.
- 95. (Previously Presented) A vector comprising the polynucleotide of any one of claims 92, 93 or 94.
- 96. (Previously Presented) The vector of claim 95, wherein said vector is an expression vector, and said polynucleotide is operably linked to a promoter.
- 97. (Currently amended) A recombinant host cell comprising the vector of claim [[96]] 95.
- 98. (Currently amended) A process for making a recombinant host cell comprising the steps of:
- (a) transfecting the expression vector of claim [[95]] <u>96</u> into a suitable host cell; and

- (b) culturing the host cell under conditions which allow expression of a G protein fusion construct of a G protein-coupled receptor from the expression vector.
- 99. (Previously Presented) A membrane of the recombinant host cell of claim 97 comprising said G protein fusion construct.
 - 100. ((Previously Presented)) A vector comprising the polynucleotide of claim 85.
 - 101. ((Previously Presented)) A vector comprising the polynucleotide of claim 86.
 - 102-106. (Cancelled)